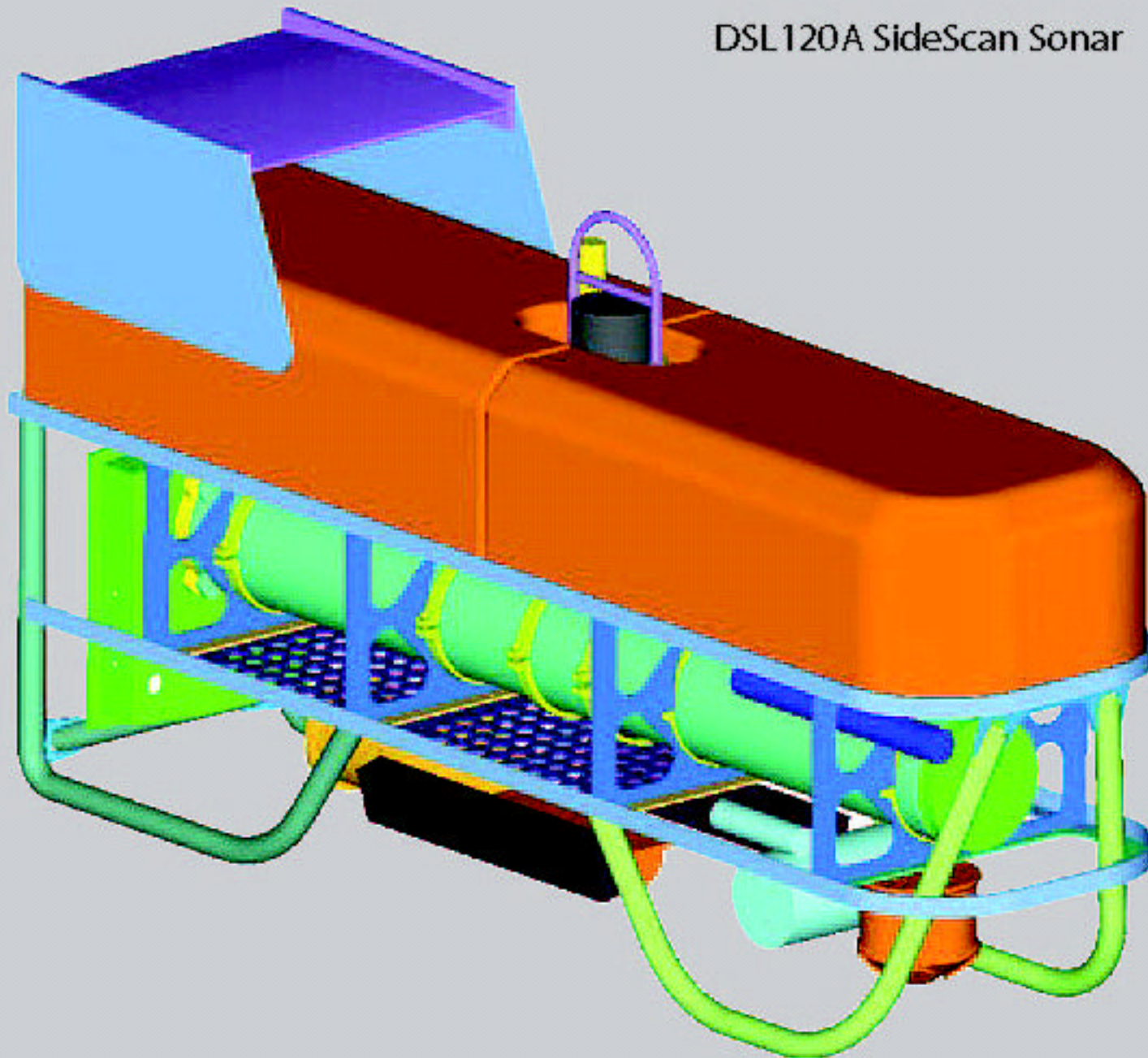




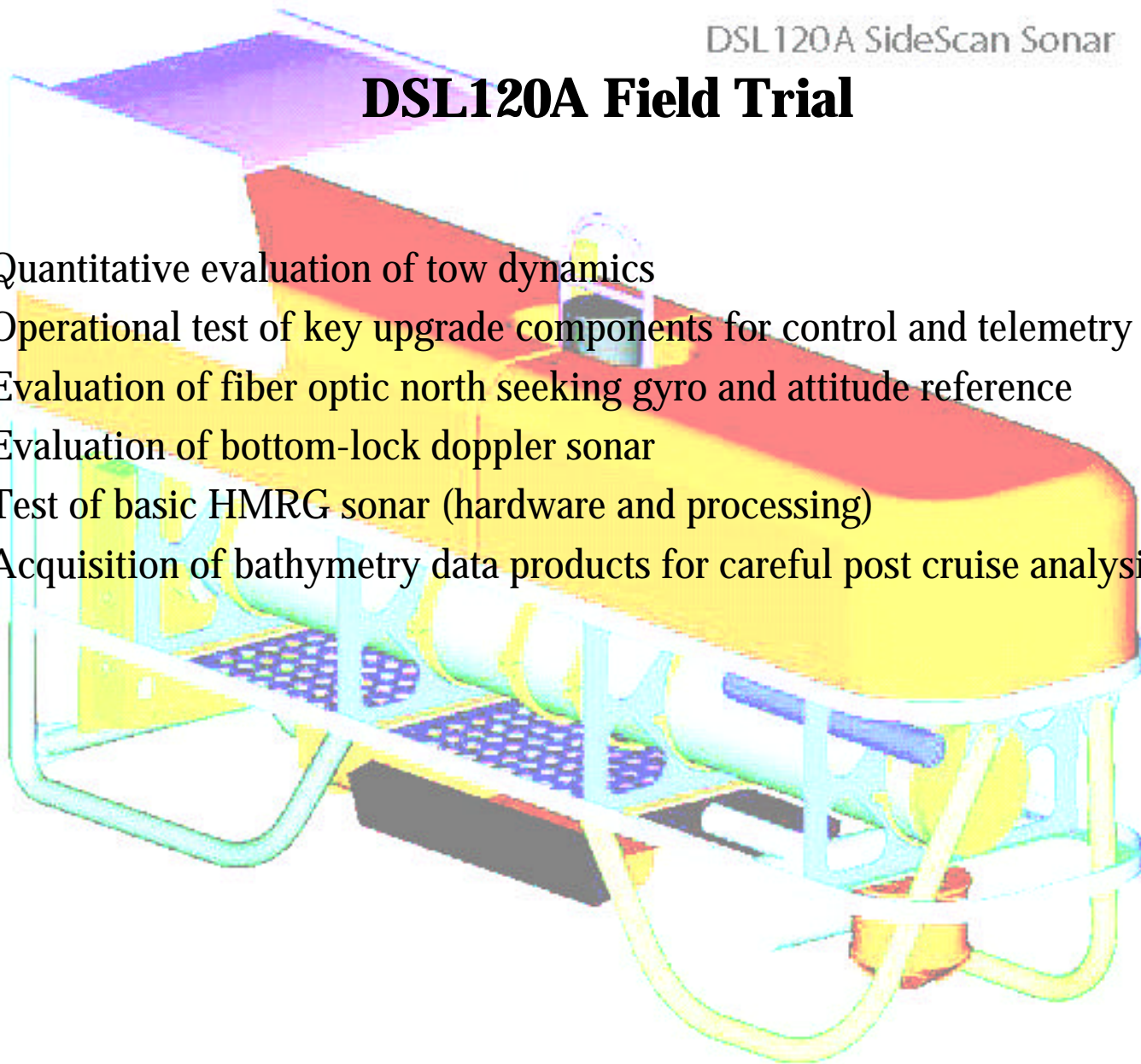
DSL 120A SideScan Sonar



DSL120A SideScan Sonar

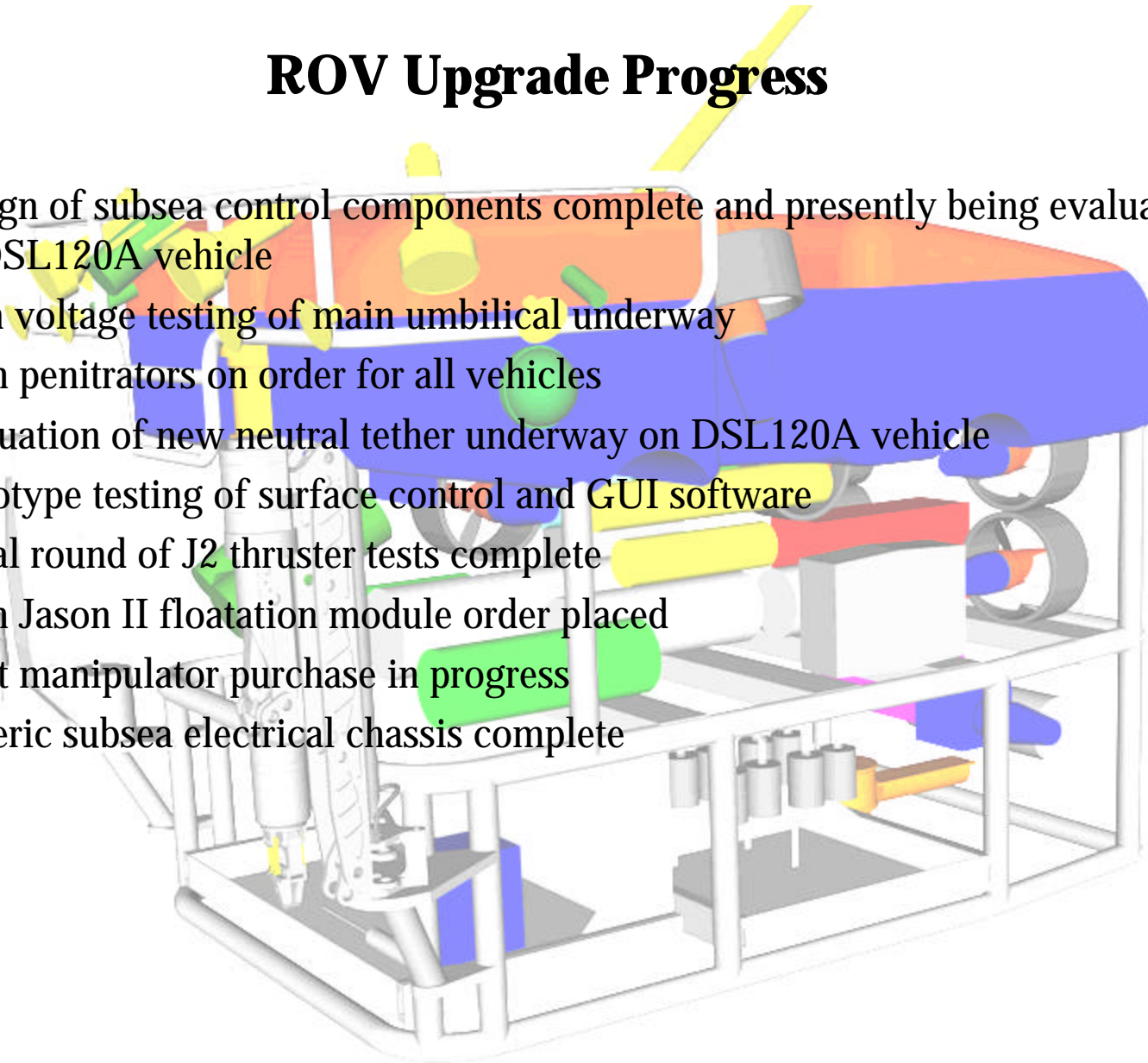
## DSL120A Field Trial

- Quantitative evaluation of tow dynamics
- Operational test of key upgrade components for control and telemetry
- Evaluation of fiber optic north seeking gyro and attitude reference
- Evaluation of bottom-lock doppler sonar
- Test of basic HMRG sonar (hardware and processing)
- Acquisition of bathymetry data products for careful post cruise analysis.



# ROV Upgrade Progress

- Design of subsea control components complete and presently being evaluated on DSL120A vehicle
- High voltage testing of main umbilical underway
- Main penetrators on order for all vehicles
- Evaluation of new neutral tether underway on DSL120A vehicle
- Prototype testing of surface control and GUI software
- Initial round of J2 thruster tests complete
- Main Jason II floatation module order placed
- Kraft manipulator purchase in progress
- Generic subsea electrical chassis complete



# Jason II Field Trial

- Full operational test at maximum rated depth in Deep Ocean Pressure Test Facility:
    - Ability to test both Jason II and Medea in operation
    - Full propulsion and manipulator tests (hydraulics etc.)
    - Complete operational test of science tool sled mechanisms
    - Estimated cost for chamber and DSG time at \$120K
  - Post pressure test dock trial:
    - Completion of control system development (auto heading, etc.)
    - Test of science tool interface (including elevator)
    - Estimated cost of \$145K
  - Addition of 3 days to suitable initial science deployment
    - Estimated costs including ship time of \$90K
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